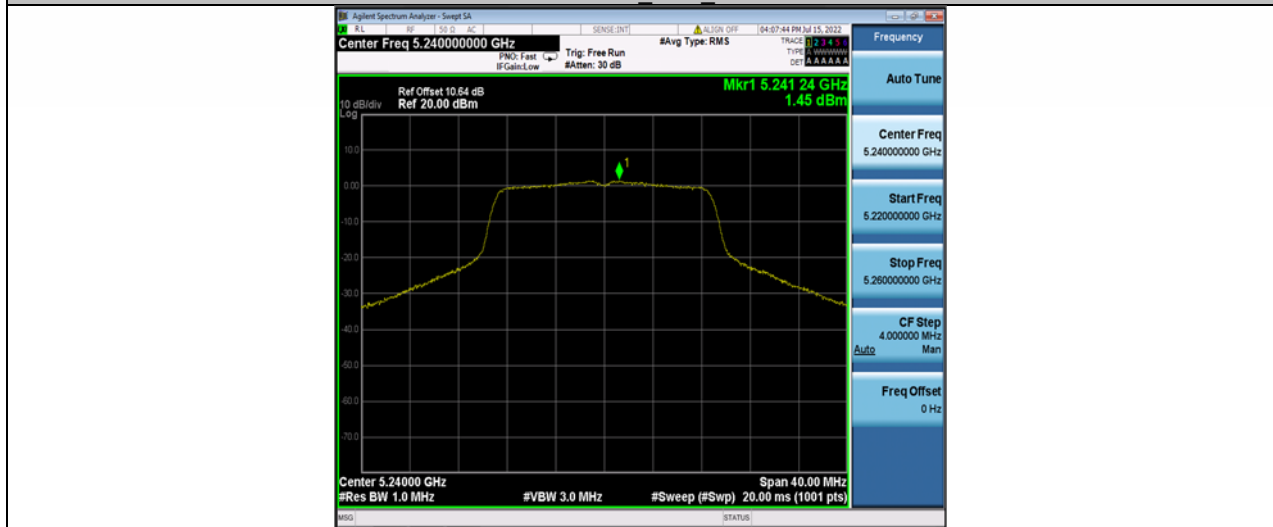




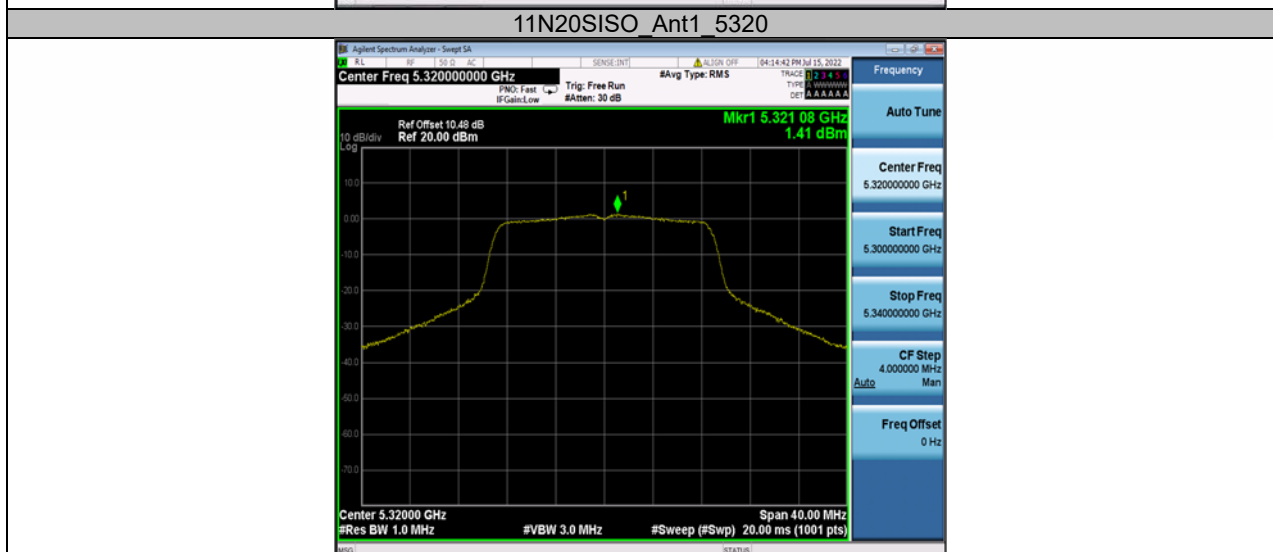
11N20SISO Ant1 5220



11N20SISO Ant1 5240



11N20SISO Ant1 5260

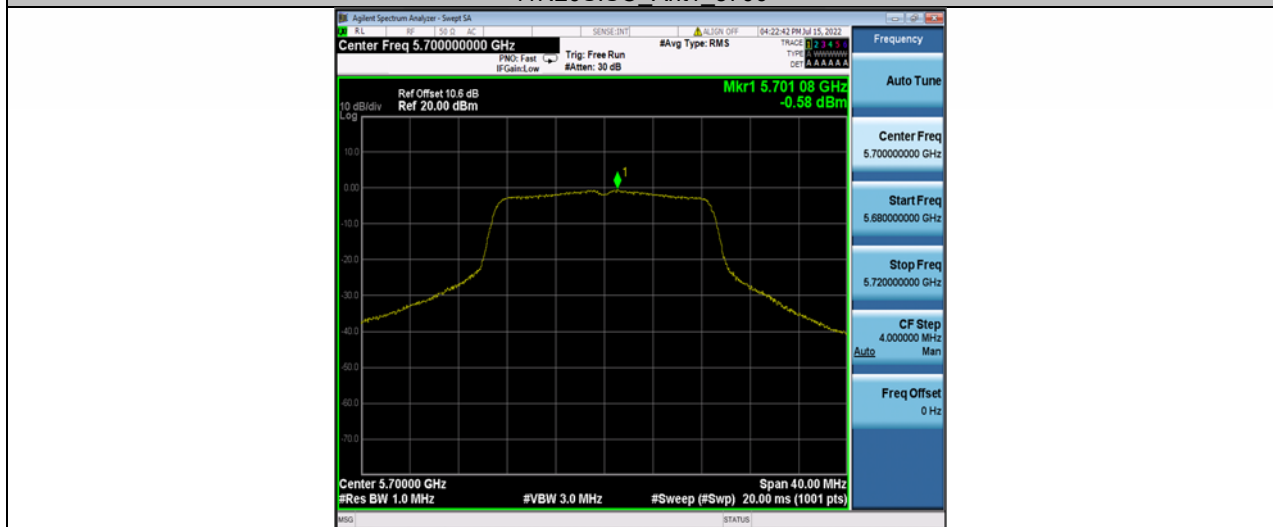




11N20SISO Ant1 5580



11N20SISO Ant1 5700



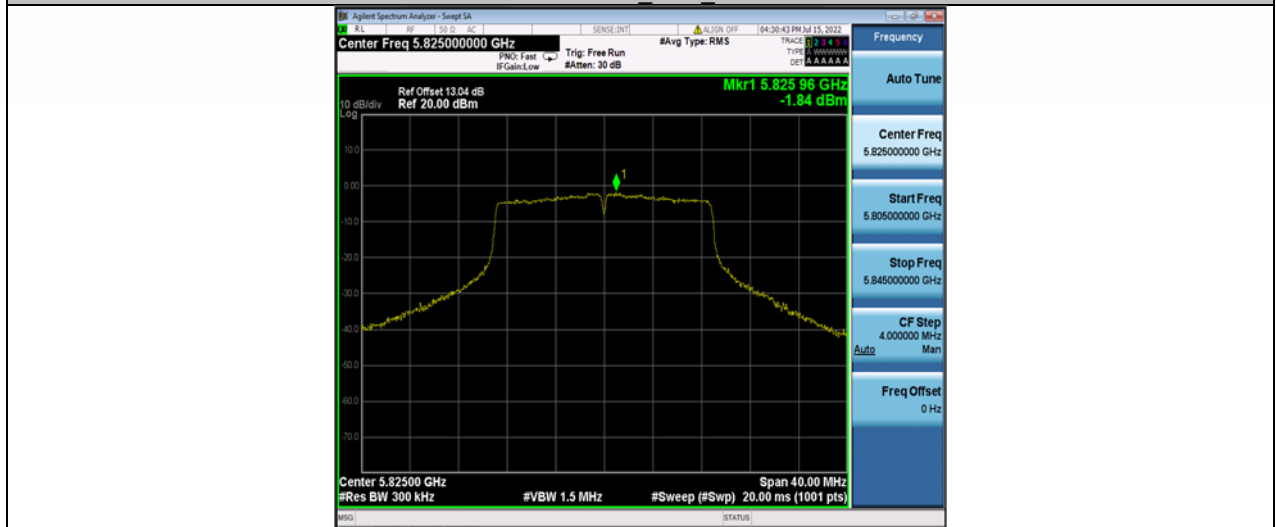
11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825



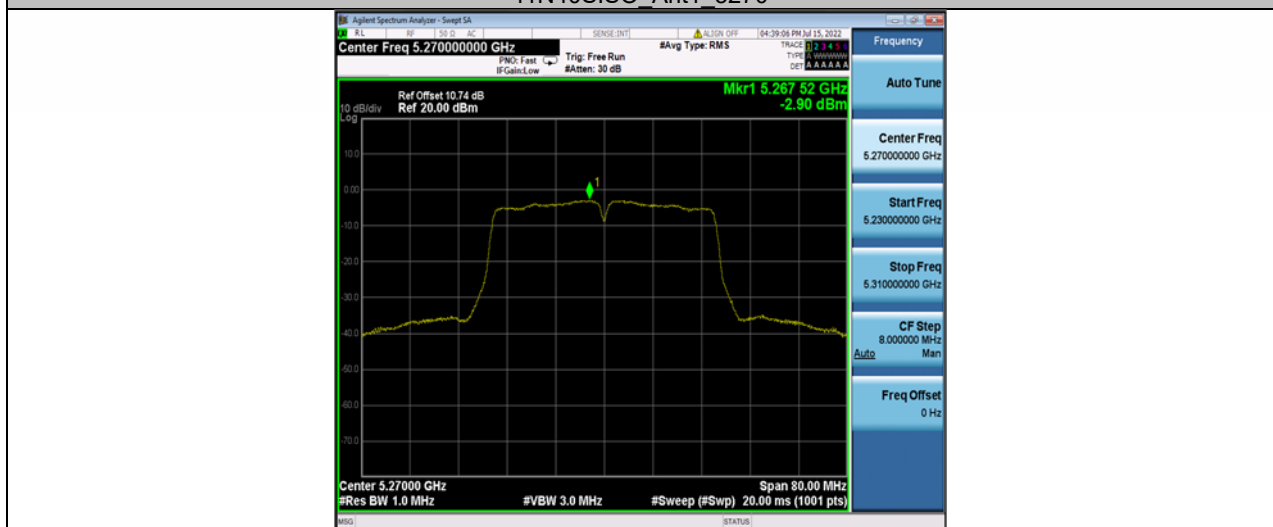
11N40SISO Ant1 5190



11N40SISO Ant1 5230



11N40SISO Ant1 5270



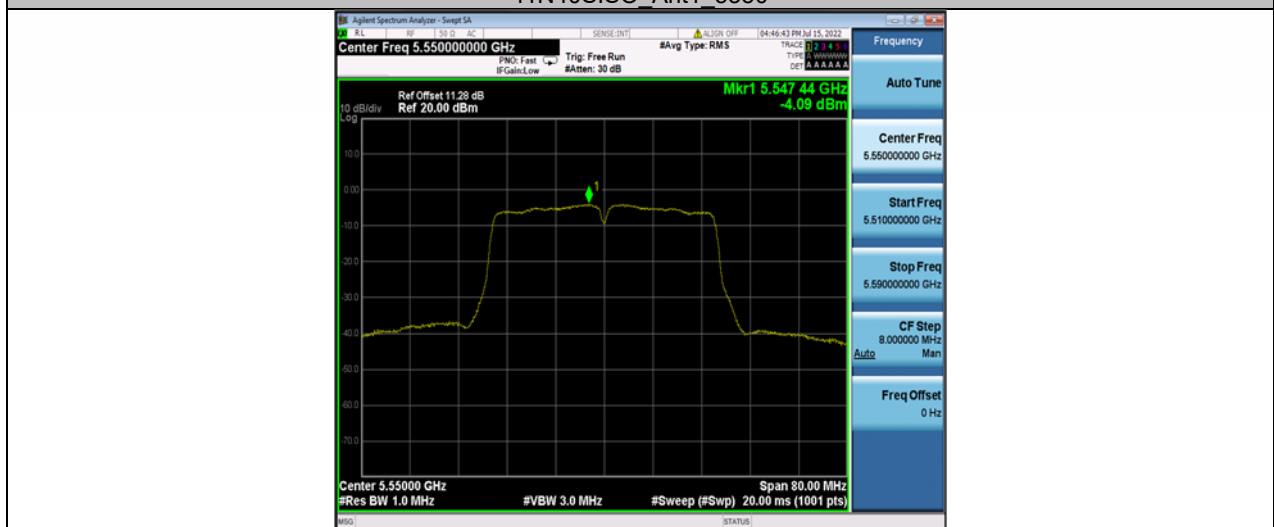
11N40SISO Ant1 5310



11N40SISO Ant1 5510



11N40SISO Ant1 5550



11N40SISO Ant1 5670



11N40SISO Ant1 5755



11N40SISO Ant1 5795



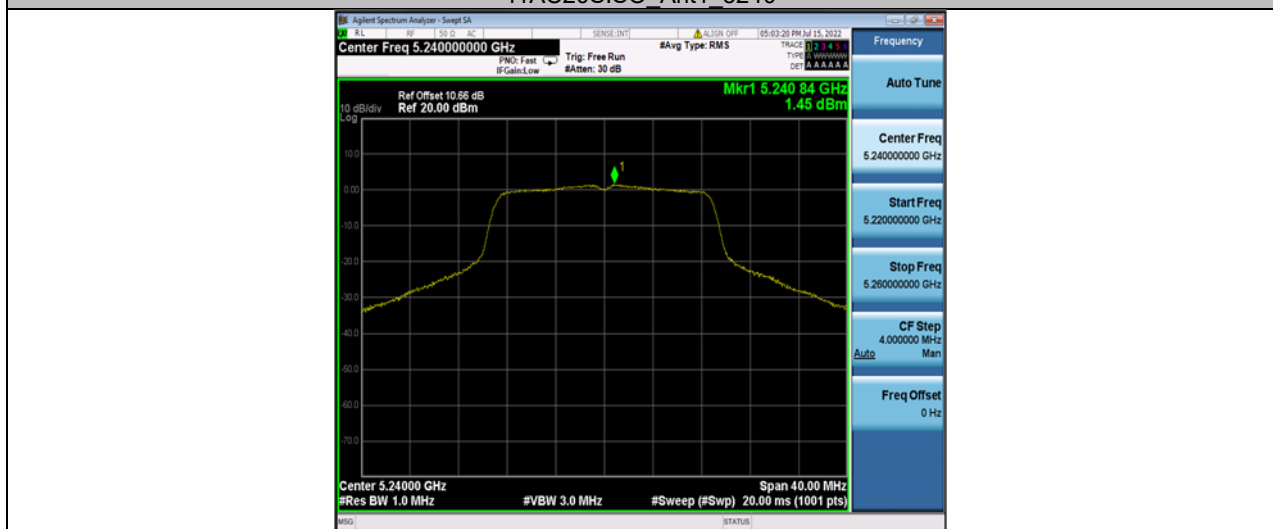
11AC20SISO Ant1 5180



11AC20SISO Ant1 5220



11AC20SISO Ant1 5240



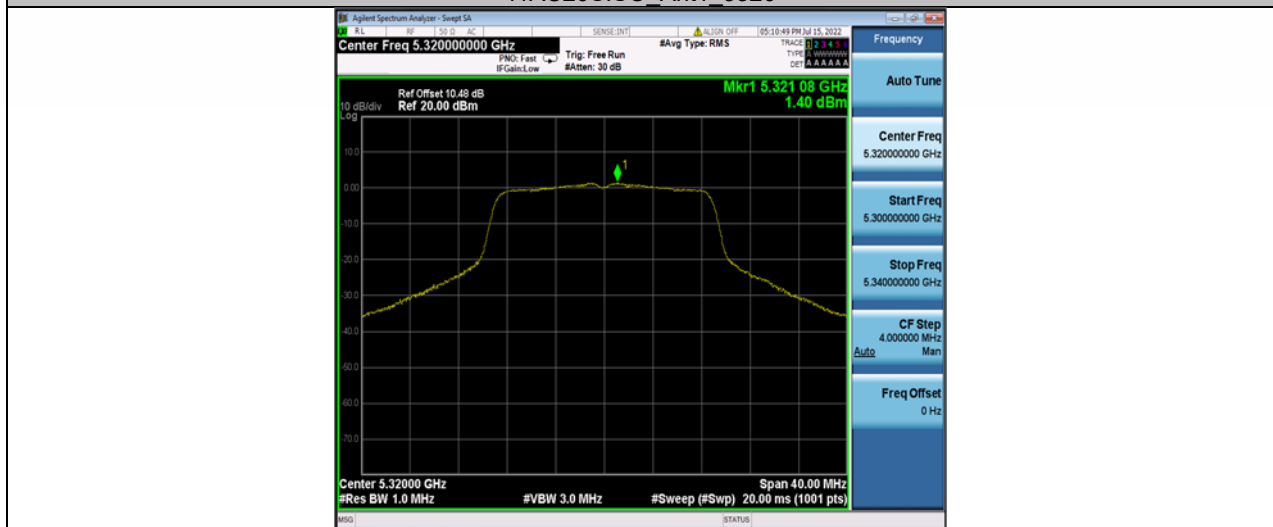
11AC20SISO Ant1 5260



11AC20SISO Ant1 5300



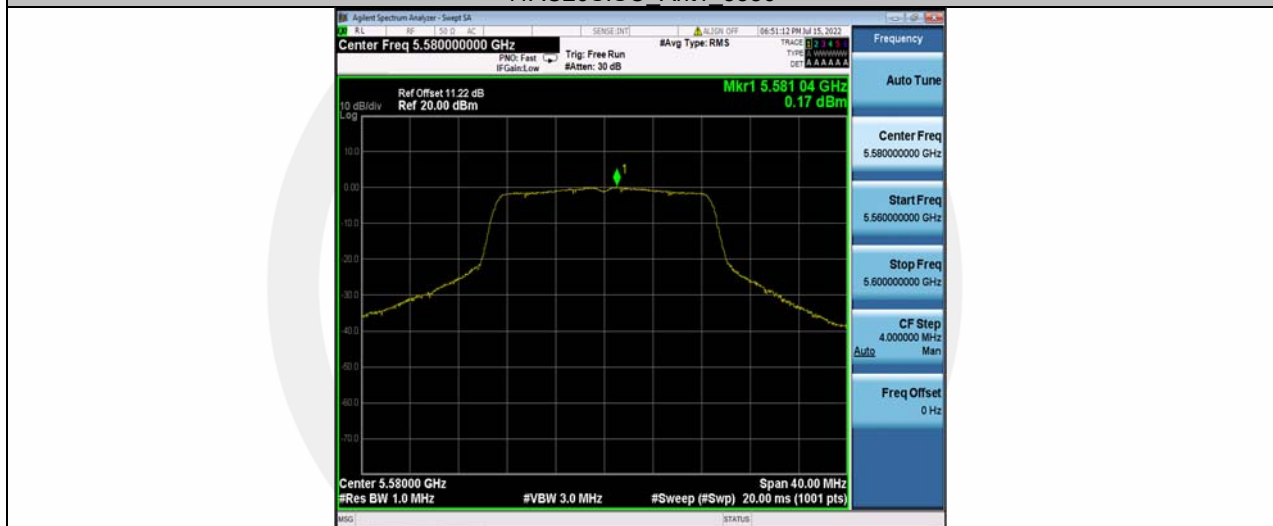
11AC20SISO Ant1 5320



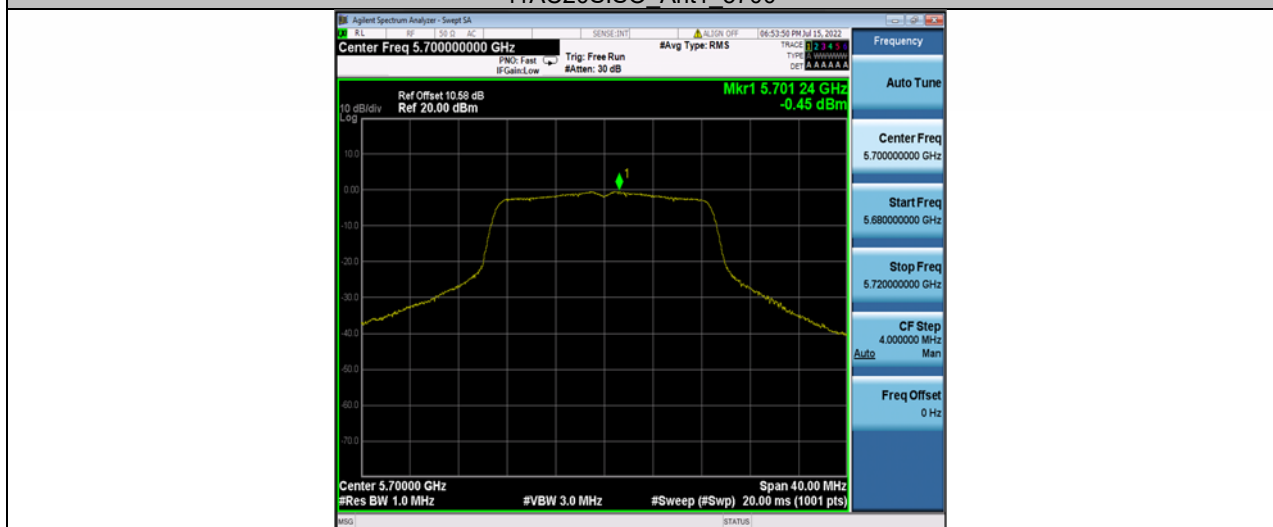
11AC20SISO Ant1 5500



11AC20SISO Ant1 5580



11AC20SISO Ant1 5700



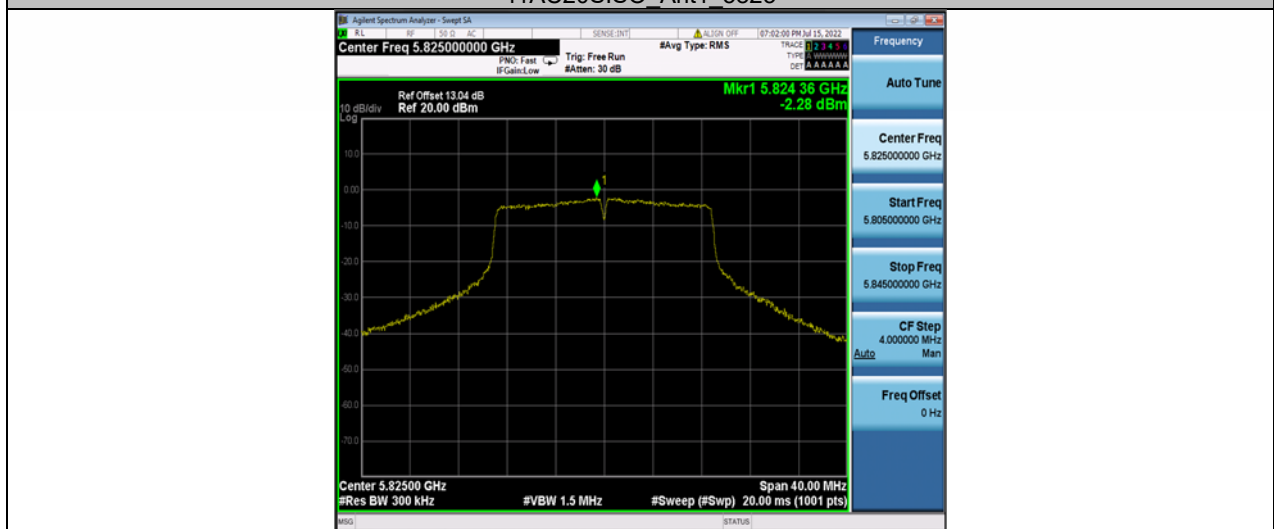
11AC20SISO Ant1 5745



11AC20SISO Ant1 5785



11AC20SISO Ant1 5825



11AC40SISO Ant1 5190



11AC40SISO Ant1 5230



11AC40SISO Ant1 5270



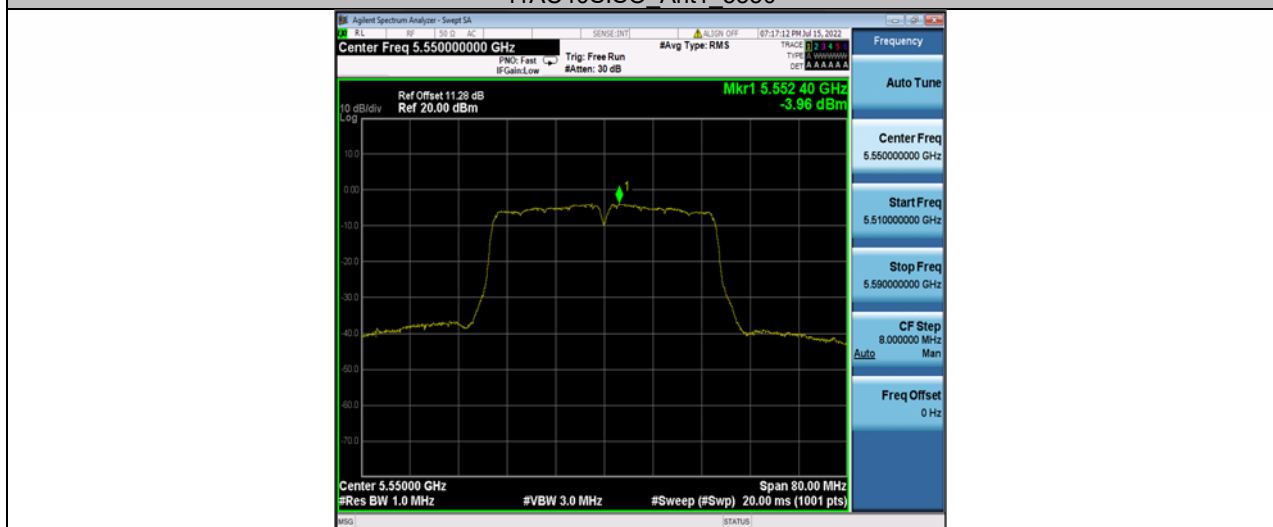
11AC40SISO Ant1 5310



11AC40SISO Ant1 5510



11AC40SISO Ant1 5550



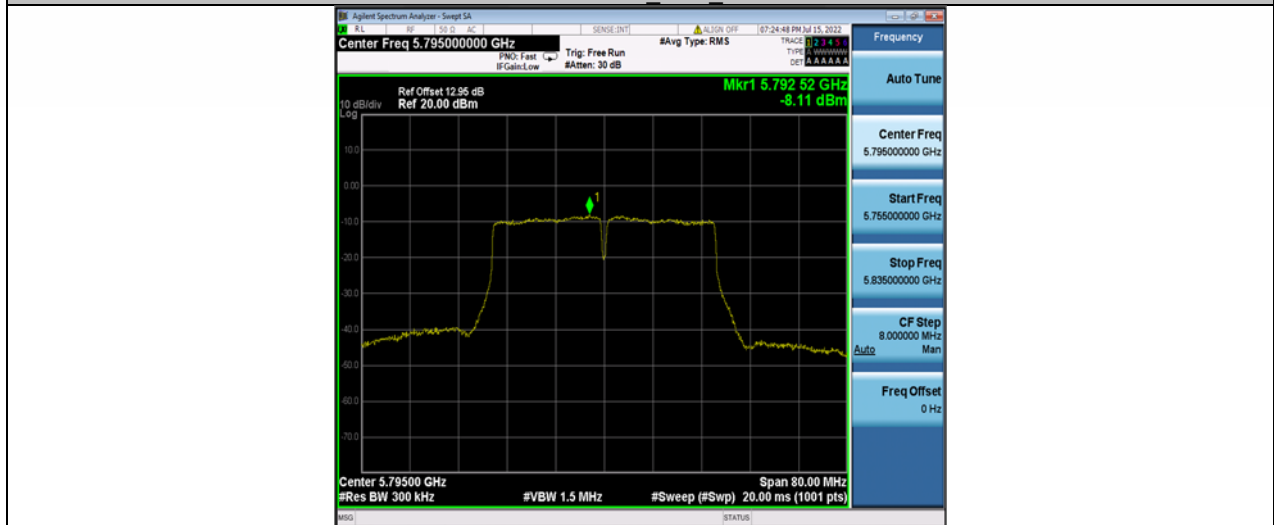
11AC40SISO Ant1 5670



11AC40SISO Ant1 5755



11AC40SISO Ant1 5795



11AC80SISO Ant1 5210



11AC80SISO Ant1 5290



11AC80SISO Ant1 5530



11AC80SISO Ant1 5610



11AC80SISO Ant1 5775



8.5 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.407 (b), 15.209, 15.205

According to 789033 D02 Section II(G)

According to RSS 247 6.2

According to RSS-GEN 8.9, 8.10 and 6.13

8.5.2 Conformance Limit

FCC Limit:

For the band 5.15-5.25 GHz

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For the band 5.25-5.35 GHz

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For the band 5.47-5.725 GHz

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For the band 5.725-5.85 GHz

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

IC Limit:

For the band 5.15-5.25 GHz

All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

For the band 5.25-5.35 GHz

All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text "for indoor use only."

For the band 5.47-5.6 GHz and 5.65-5.725 GHz

Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

For the band 5.725-5.85 GHz

27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 Bm/MHz at 5 MHz above or below the band edges;
15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209 The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V/m}$)	300
0.490-1.705	24000/F(KHz)	20 log ($\mu\text{V/m}$)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section, 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup

8.5.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set RBW=120kHz for $f < 1$ GHz(30MHz to 1GHz), 200Hz for $f < 150$ KHz(9KHz to 150KHz), 9KHz for < 30 MHz(150KHz to 30KHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method AD (Average Detection): Primary method

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = power averaging (rms), if span/(# of points in sweep) ≤ RBW/2. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

Averaging type = power averaging (rms)

Sweep time = auto.

Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of 1/x, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

8.5.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar
Test Engineer:	XXH

■ Spurious Emission below 30MHz(9KHz to 30MHz)

For Spurious Emission below 30MHz (9KHz to 30MHz), was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

■ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

- For Undesirable radiated Spurious Emission in U-NII-1

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
4008.971	V	48.48	-8.41	40.07	74.00	-33.93	peak
4008.971	V	30.81	-8.41	22.40	54.00	-31.60	AVG
11116.18	V	45.20	7.55	52.75	74.00	-21.25	peak
11116.18	V	29.22	7.55	36.77	54.00	-17.23	AVG
17992.19	V	45.43	19.13	64.56	74.00	-9.44	peak
17992.19	V	27.10	19.13	46.23	54.00	-7.77	AVG
3999.134	H	47.11	-8.43	38.68	74.00	-35.32	peak
3999.134	H	28.76	-8.43	20.33	54.00	-33.67	AVG
10636.84	H	48.27	6.99	55.26	74.00	-18.74	peak
10636.84	H	31.34	6.99	38.33	54.00	-15.67	AVG
17914.36	H	46.86	18.60	65.46	74.00	-8.54	peak
17914.36	H	29.62	18.60	48.22	54.00	-5.78	AVG

Note:

- (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS;
- (3) Field Strength = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

Test mode: 802.11a Frequency: Channel 40: 5200MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
4998.160	V	48.50	-5.33	43.17	74.00	-30.83	peak
4998.160	V	30.56	-5.33	25.23	54.00	-28.77	AVG
11024.99	V	48.03	7.60	55.63	74.00	-18.37	peak
11024.99	V	30.55	7.60	38.15	54.00	-15.85	AVG
17867.82	V	48.11	18.29	66.40	74.00	-7.60	peak
17867.82	V	29.94	18.29	48.23	54.00	-5.77	AVG
5432.029	H	49.94	-4.38	45.56	74.00	-28.44	peak
5432.029	H	33.00	-4.38	28.62	54.00	-25.38	AVG
9931.165	H	48.42	5.27	53.69	74.00	-20.31	peak
9931.165	H	30.45	5.27	35.72	54.00	-18.28	AVG
17909.18	H	47.60	18.57	66.17	74.00	-7.83	peak
17909.18	H	29.58	18.57	48.15	54.00	-5.85	AVG

Note:

- (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS;
- (3) Field Strength = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

● For Undesirable radiated Spurious Emission in U-NII-2A

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a		Frequency:		Channel 52: 5260MHz			
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
6187.455	V	48.69	-2.32	46.37	74.00	-27.63	peak
6187.455	V	30.76	-2.32	28.44	54.00	-25.56	AVG
10484.23	V	48.08	6.72	54.80	74.00	-19.20	peak
10484.23	V	30.05	6.72	36.77	54.00	-17.23	AVG
17901.42	V	47.20	18.53	65.73	74.00	-8.27	peak
17901.42	V	29.79	18.53	48.32	54.00	-5.68	AVG
5268.126	H	48.77	-4.76	44.01	74.00	-29.99	peak
5268.126	H	30.98	-4.76	26.22	54.00	-27.78	AVG
10751.21	H	46.54	7.19	53.73	74.00	-20.27	peak
10751.21	H	28.58	7.19	35.77	54.00	-18.23	AVG
17994.79	H	46.30	19.16	65.46	74.00	-8.54	peak
17994.79	H	28.39	19.16	47.55	54.00	-6.45	AVG
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

Test mode: 802.11a		Frequency:		Channel 56: 5280MHz			
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5094.423	V	49.43	-5.98	43.45	74.00	-30.55	peak
5094.423	V	31.20	-5.98	25.22	54.00	-28.78	AVG
9775.950	V	48.41	4.61	53.02	74.00	-20.98	peak
9775.950	V	30.62	4.61	35.23	54.00	-18.77	AVG
17872.98	V	51.35	13.86	65.21	74.00	-8.79	peak
17872.98	V	34.47	13.86	48.33	54.00	-5.67	AVG
5479.335	H	50.49	-5.44	45.05	74.00	-28.95	peak
5479.335	H	33.51	-5.44	28.07	54.00	-25.93	AVG
10091.76	H	47.78	5.35	53.13	74.00	-20.87	peak
10091.76	H	29.86	5.35	35.21	54.00	-18.79	AVG
17872.98	H	51.85	13.86	65.71	74.00	-8.29	peak
17872.98	H	34.91	13.86	48.77	54.00	-5.23	AVG
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

Test mode: 802.11a Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
4717.422	V	50.21	-7.10	43.11	74.00	-30.89	peak
4717.422	V	32.25	-7.10	25.15	54.00	-28.85	AVG
10545.01	V	50.86	5.66	56.52	74.00	-17.48	peak
10545.01	V	32.78	5.66	38.44	54.00	-15.56	AVG
17994.79	V	50.71	14.50	65.21	74.00	-8.79	peak
17994.79	V	33.73	14.50	48.23	54.00	-5.77	AVG
5443.030	H	50.96	-5.47	45.49	74.00	-28.51	peak
5443.030	H	33.62	-5.47	28.15	54.00	-25.85	AVG
10250.50	H	49.45	5.46	54.91	74.00	-19.09	peak
10250.50	H	30.87	5.46	36.33	54.00	-17.67	AVG
17847.17	H	50.87	13.72	64.59	74.00	-9.41	peak
17847.17	H	32.83	13.72	46.55	54.00	-7.45	AVG

Note:

- (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS;
- (3) Field Strength = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

● For Undesirable radiated Spurious Emission in U-NII-2C

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a		Frequency:		Channel 100: 5500MHz			
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
4626.277	V	51.81	-7.43	44.38	74.00	-29.62	peak
4626.277	V	33.98	-7.43	26.55	54.00	-27.45	AVG
8502.160	V	50.48	1.99	52.47	74.00	-21.53	peak
8502.160	V	34.23	1.99	36.22	54.00	-17.78	AVG
17893.66	V	50.40	13.96	64.36	74.00	-9.64	peak
17893.66	V	32.27	13.96	46.23	54.00	-7.77	AVG
5023.506	H	49.49	-6.07	43.42	74.00	-30.58	peak
5023.506	H	31.58	-6.07	25.51	54.00	-28.49	AVG
8498.475	H	50.72	1.99	52.71	74.00	-21.29	peak
8498.475	H	32.56	1.99	34.55	54.00	-19.45	AVG
17901.42	H	51.49	14.02	65.51	74.00	-8.49	peak
17901.42	H	34.30	14.02	48.32	54.00	-5.68	AVG

Note:

- (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS;
- (3) Field Strength = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

Test mode: 802.11a		Frequency:		Channel 120: 5600MHz			
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5440.671	V	50.45	-5.47	44.98	74.00	-29.02	peak
5440.671	V	32.35	-5.47	26.88	54.00	-27.12	AVG
11258.46	V	50.69	6.10	56.79	74.00	-17.21	peak
11258.46	V	32.13	6.10	38.23	54.00	-15.77	AVG
17927.31	V	52.08	14.15	66.23	74.00	-7.77	peak
17927.31	V	34.00	14.15	48.15	54.00	-5.85	AVG
5054.821	H	49.57	-6.03	43.54	74.00	-30.46	peak
5054.821	H	31.66	-6.03	25.63	54.00	-28.37	AVG
9277.661	H	50.55	3.13	53.68	74.00	-20.32	peak
9277.661	H	32.61	3.13	35.74	54.00	-18.26	AVG
17922.12	H	49.91	14.12	64.03	74.00	-9.97	peak
17922.12	H	31.88	14.12	46.00	54.00	-8.00	AVG

Note:

- (1) Peak RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS;
- (3) Field Strength = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

Test mode: 802.11a Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
4038.044	V	50.19	-9.32	40.87	74.00	-33.13	peak
4038.044	V	41.77	-9.32	32.45	54.00	-21.55	AVG
9287.052	V	50.41	3.16	53.57	74.00	-20.43	peak
9287.052	V	32.05	3.16	35.21	54.00	-18.79	AVG
17950.64	V	50.80	14.27	65.07	74.00	-8.93	peak
17950.64	V	33.76	14.27	48.03	54.00	-5.97	AVG
5482.503	H	51.14	-5.43	45.71	74.00	-28.29	peak
5482.503	H	33.86	-5.43	28.43	54.00	-25.57	AVG
10503.94	H	50.59	5.64	56.23	74.00	-17.77	peak
10503.94	H	32.51	5.64	38.15	54.00	-15.85	AVG
17924.71	H	51.02	14.13	65.15	74.00	-8.85	peak
17924.71	H	34.20	14.13	48.33	54.00	-5.67	AVG

Note:

- (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS;
- (3) Field Strength = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

● For Undesirable radiated Spurious Emission in U-NII-3

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a		Frequency:			Channel 149: 5745MHz		
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
4657.135	V	50.29	-7.31	42.98	74.00	-31.02	peak
4657.135	V	31.86	-7.31	24.55	54.00	-29.45	AVG
7636.527	V	49.74	1.03	50.77	74.00	-23.23	peak
7636.527	V	30.66	1.03	31.69	54.00	-22.31	AVG
17893.66	V	50.62	13.96	64.58	74.00	-9.42	peak
17893.66	V	32.55	13.96	46.51	54.00	-7.49	AVG
5265.082	H	50.35	-5.75	44.60	74.00	-29.40	peak
5265.082	H	32.08	-5.75	26.33	54.00	-27.67	AVG
10257.91	H	51.21	5.46	56.67	74.00	-17.33	peak
10257.91	H	32.96	5.46	38.42	54.00	-15.58	AVG
17942.86	H	50.76	14.23	64.99	74.00	-9.01	peak
17942.86	H	31.92	14.23	46.15	54.00	-7.85	AVG
Note: (1) PeaK RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

Test mode: 802.11a		Frequency:			Channel 157: 5785MHz		
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5462.731	V	51.41	-5.45	45.96	74.00	-28.04	peak
5462.731	V	33.78	-5.45	28.33	54.00	-25.67	AVG
12455.20	V	49.58	6.22	55.80	74.00	-18.20	peak
12455.20	V	32.22	6.22	38.44	54.00	-15.56	AVG
17904.00	V	50.75	14.02	64.77	74.00	-9.23	peak
17904.00	V	32.21	14.02	46.23	54.00	-7.77	AVG
6544.318	H	48.58	-2.42	46.16	74.00	-27.84	peak
6544.318	H	30.66	-2.42	28.24	54.00	-25.76	AVG
12202.20	H	49.39	6.16	55.55	74.00	-18.45	peak
12202.20	H	32.17	6.16	38.33	54.00	-15.67	AVG
17904.00	H	50.44	14.02	64.46	74.00	-9.54	peak
17904.00	H	32.20	14.02	46.22	54.00	-7.78	AVG
Note: (1) PeaK RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

■ **Undesirable radiated Undesirable radiated Spurious Emission in Band Edge**

● For Undesirable radiated Spurious Emission in U-NII-1

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5133.555	V	47.78	11.60	59.38	74.00	-14.62	peak
5133.555	V	30.84	11.60	42.44	54.00	-11.56	AVG
5130.305	H	47.60	11.60	59.20	74.00	-14.80	peak
5130.305	H	29.63	11.60	41.23	54.00	-12.77	AVG
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

Test mode: 802.11a Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5358.371	V	50.42	12.09	62.51	74.00	-11.49	peak
5358.371	V	34.14	12.09	46.23	54.00	-7.77	AVG
5357.684	H	48.64	12.09	60.73	74.00	-13.27	peak
5357.684	H	30.66	12.09	42.75	54.00	-11.25	AVG
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

● For Undesirable radiated Spurious Emission in U-NII-2A

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 52: 5260MHz	
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5103.623	V	48.03	11.54	59.57	74.00	-14.43	peak
5103.623	V	29.72	11.54	41.26	54.00	-12.74	AVG
5115.290	H	48.18	11.56	59.74	74.00	-14.26	peak
5115.29	H	30.32	11.56	41.88	54.00	-12.12	AVG
Note: (1) Peak RBW = 1 MHz, VBW \geq 3 \times RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW \geq 3 \times RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

Test mode:		802.11a		Frequency:		Channel 64: 5320MHz	
Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5357.024	V	49.66	12.09	61.75	74.00	-12.25	peak
5357.024	V	31.63	12.09	43.72	54.00	-10.28	AVG
5362.650	H	49.39	12.10	61.49	74.00	-12.51	peak
5362.65	H	31.41	12.10	43.51	54.00	-10.49	AVG
Note: (1) Peak RBW = 1 MHz, VBW \geq 3 \times RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW \geq 3 \times RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

● For Undesirable radiated Spurious Emission in U-NII-2C

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 100: 5500MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5460.087	V	49.08	12.28	61.36	74.00	-12.64	peak
5460.087	V	31.04	12.28	43.32	54.00	-10.68	AVG
5465.185	H	48.60	12.29	60.89	74.00	-13.11	peak
5465.185	H	30.63	12.29	42.92	54.00	-11.08	AVG
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

Test mode: 802.11a Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5729.665	V	48.57	12.21	60.78	74.00	-13.22	peak
5729.665	V	30.61	12.21	42.82	54.00	-11.18	AVG
5728.150	H	48.45	12.20	60.65	74.00	-13.35	peak
5728.15	H	30.51	12.20	42.71	54.00	-11.29	AVG
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Field Strength = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

● For Undesirable radiated Spurious Emission in U-NII-3

All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 149: 5745MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5715.025	V	48.57	12.22	60.79	109.44	-48.65	Peak
5723.613	H	48.87	12.21	61.08	121.24	-60.16	AVG

Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak;
 (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS;
 (3) Field Strength = Reading Level + Correct Factor;
 (4) Correct Factor = Ant_F + Cab_L - Preamp;
 (5) Margin = Limit - Corrected Reading;
 (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
 (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

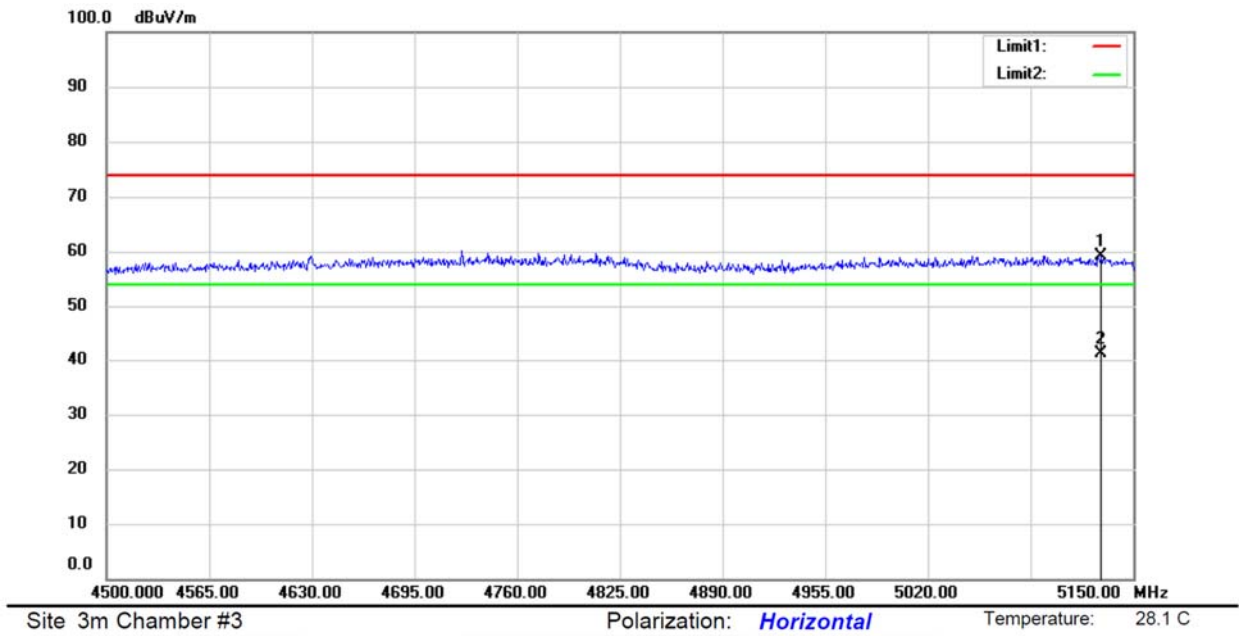
Test mode: 802.11ax(HE20) Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Reading Level (dBuV/m)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Remark
5855.137	V	48.44	12.28	60.72	110.79	-50.07	Peak
5856.275	H	49.02	12.29	61.31	110.47	-49.16	AVG

Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak;
 (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS;
 (3) Field Strength = Reading Level + Correct Factor;
 (4) Correct Factor = Ant_F + Cab_L - Preamp;
 (5) Margin = Limit - Corrected Reading;
 (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
 (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

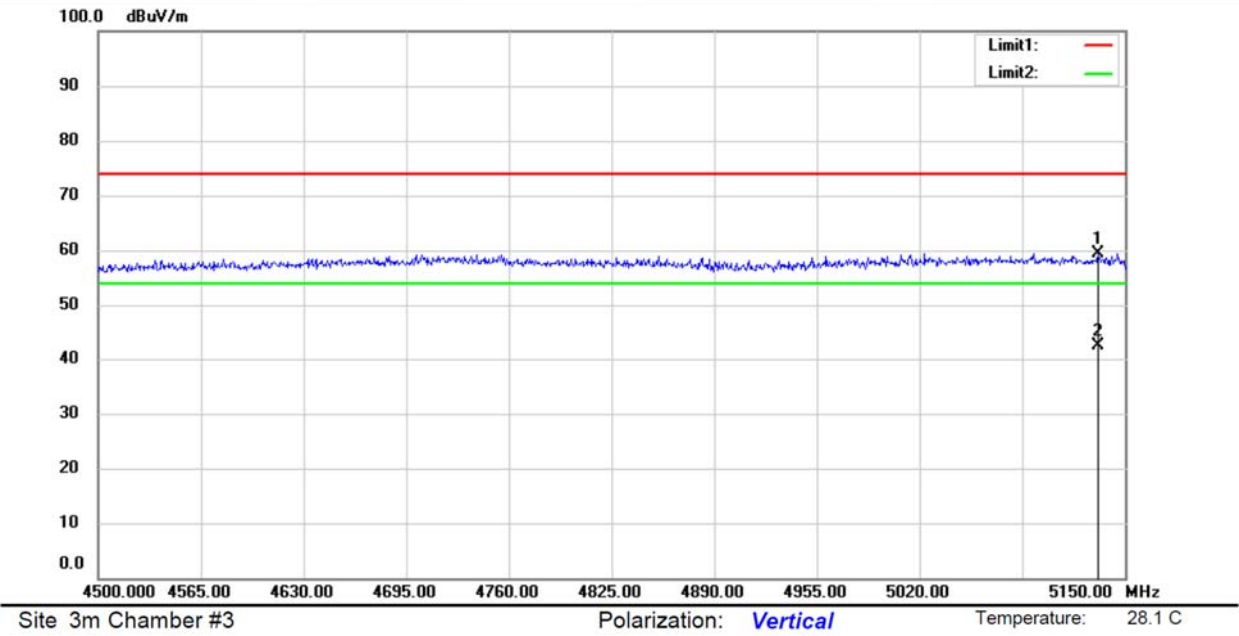
U-NII-1

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 36: 5180MHz	Ant.Pol	H



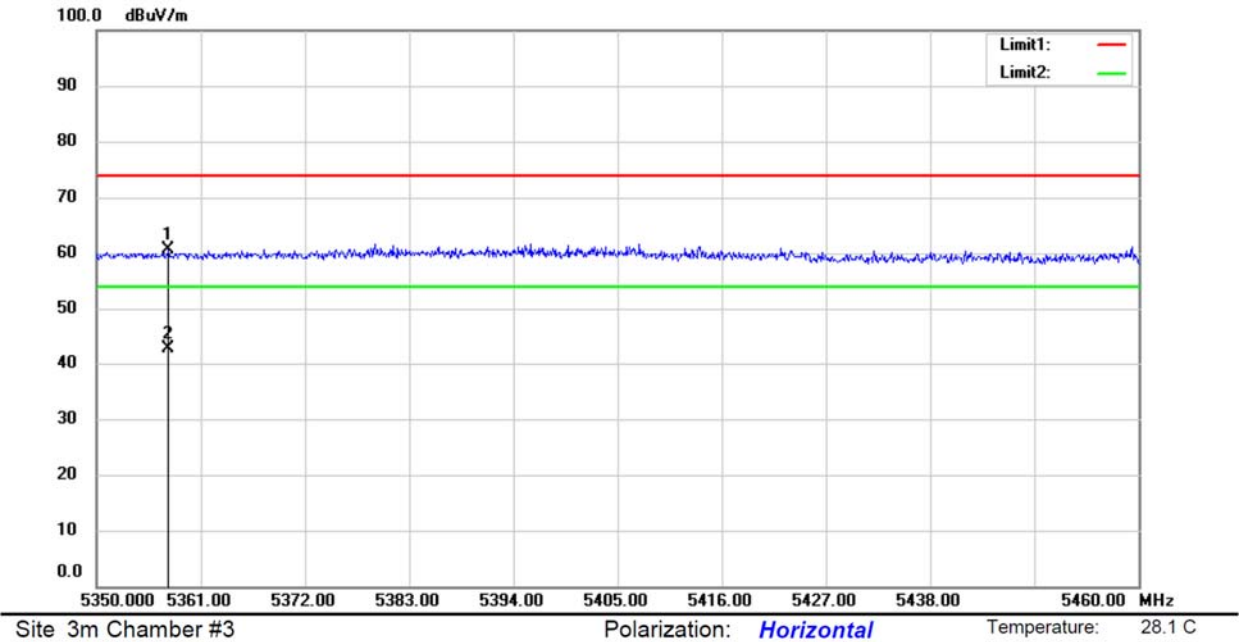
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Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 36: 5180MHz	Ant.Pol	V



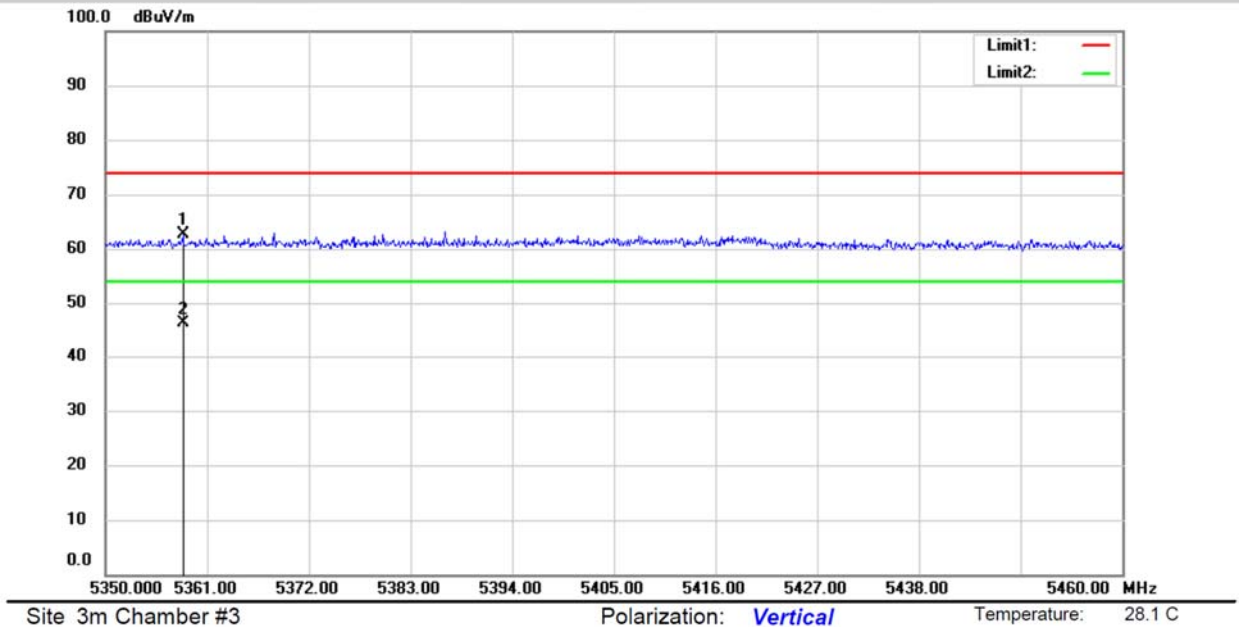
U-NII-1

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 48: 5240MHz	Ant.Pol
			H



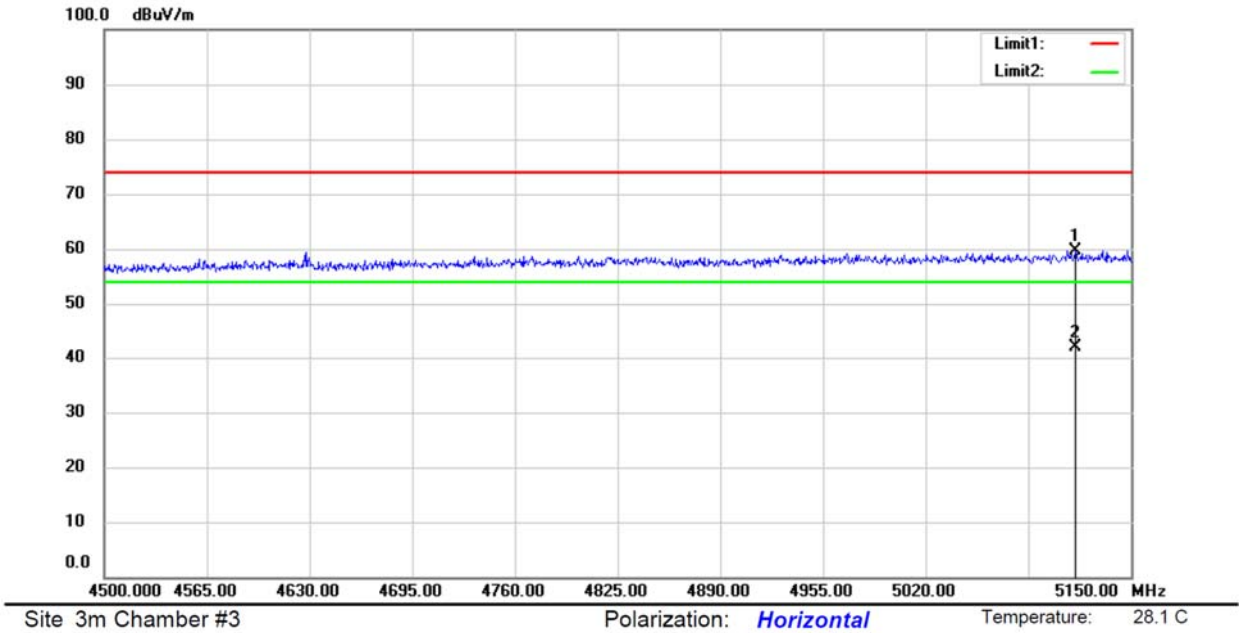
U-NII-1

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 48: 5240MHz	Ant.Pol
			V



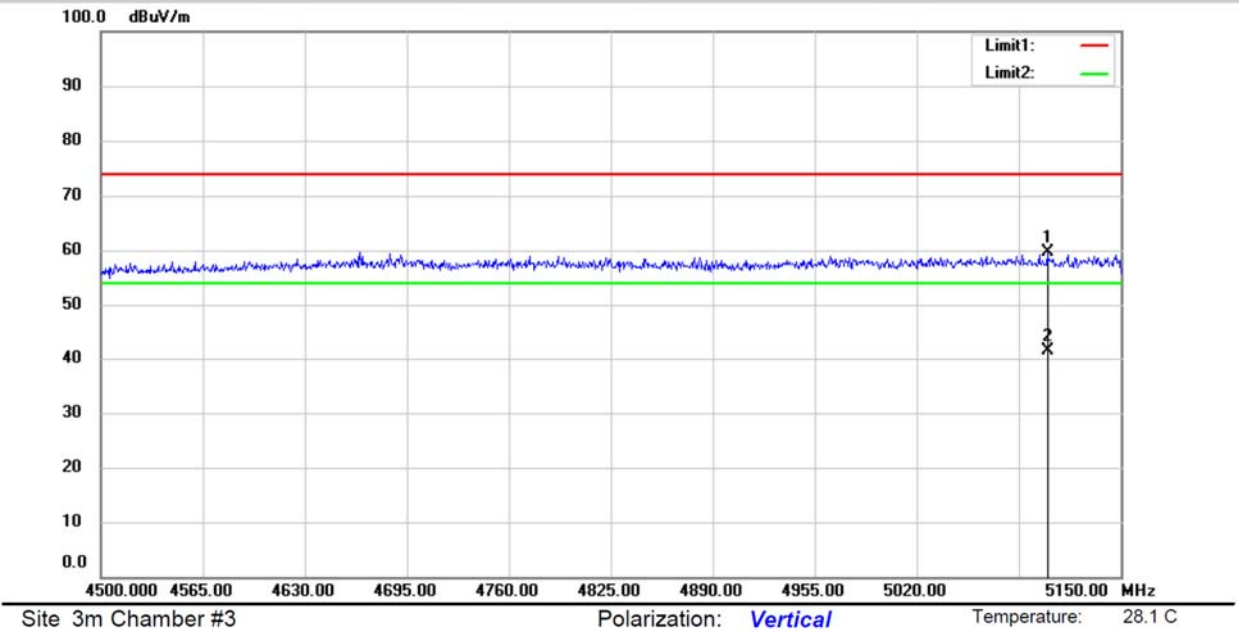
U-NII-2A

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 52: 5260MHz	Ant.Pol	H



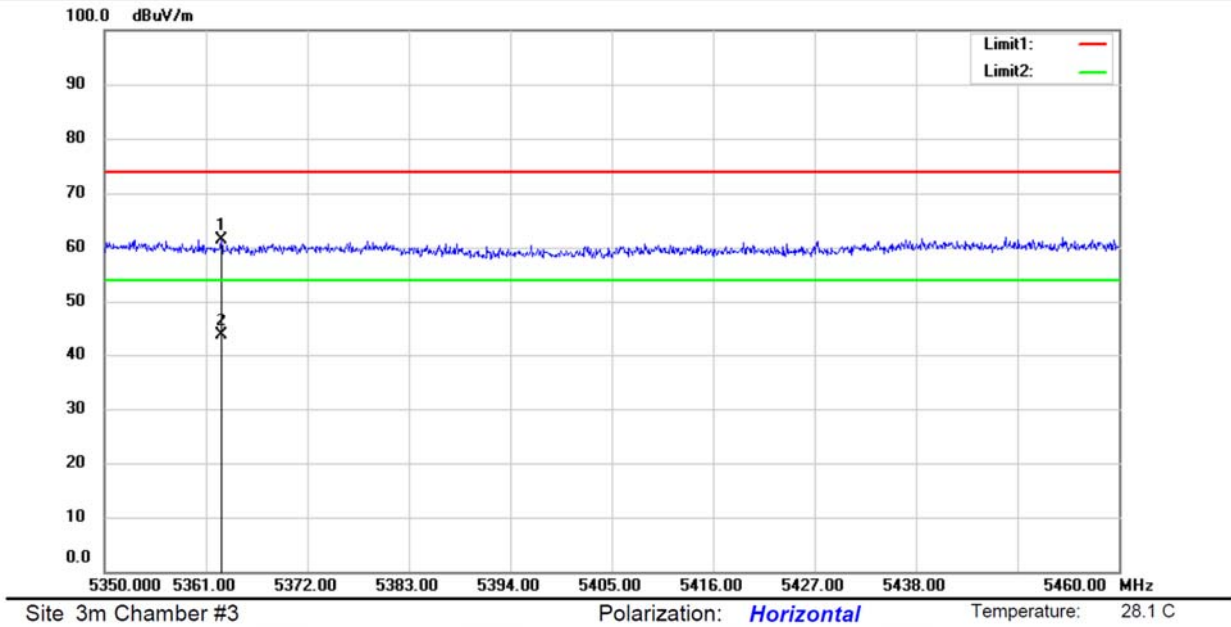
U-NII-2A

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 52: 5260MHz	Ant.Pol	V



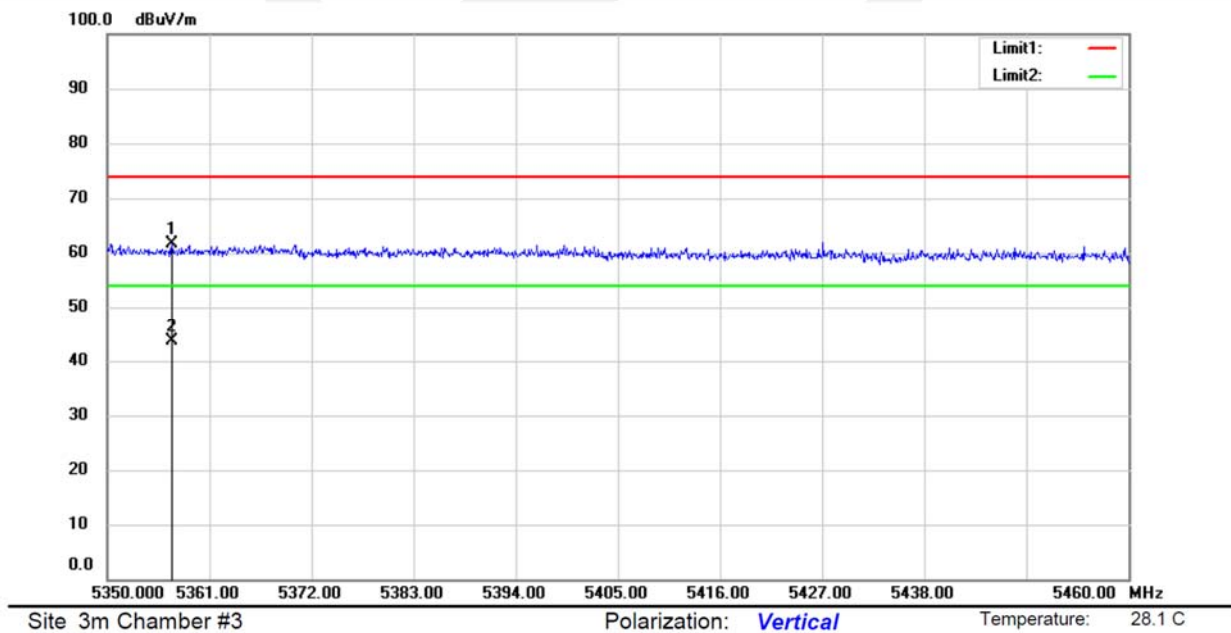
U-NII-2A

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 64: 5320MHz	Ant.Pol
			H

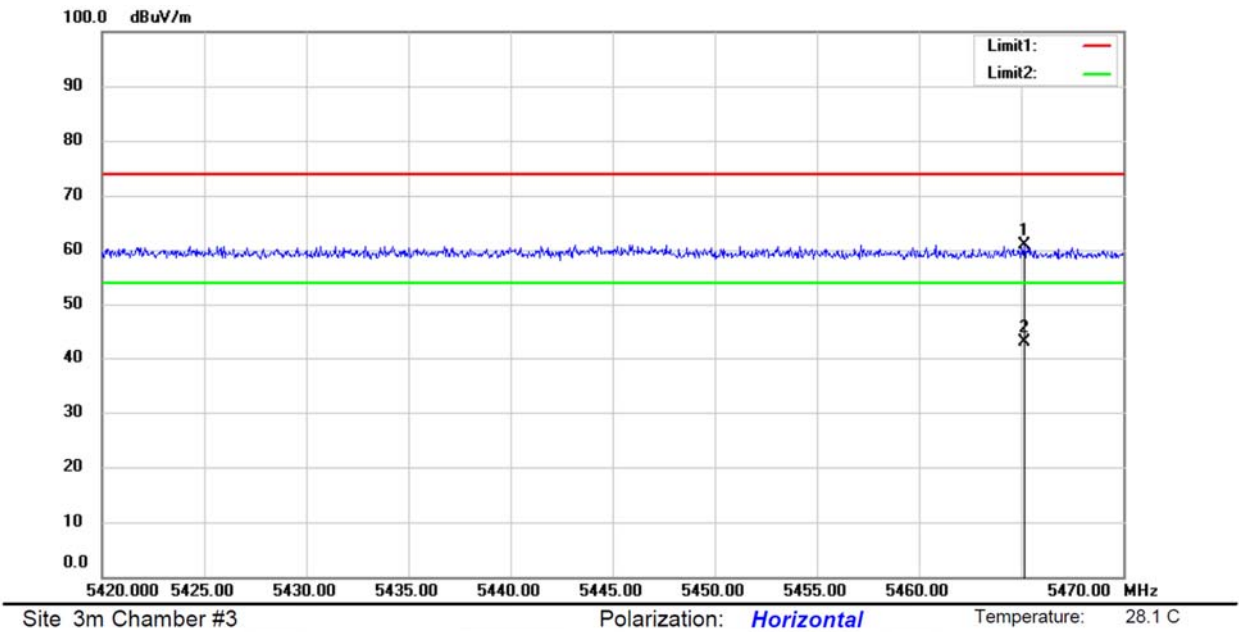


U-NII-2A

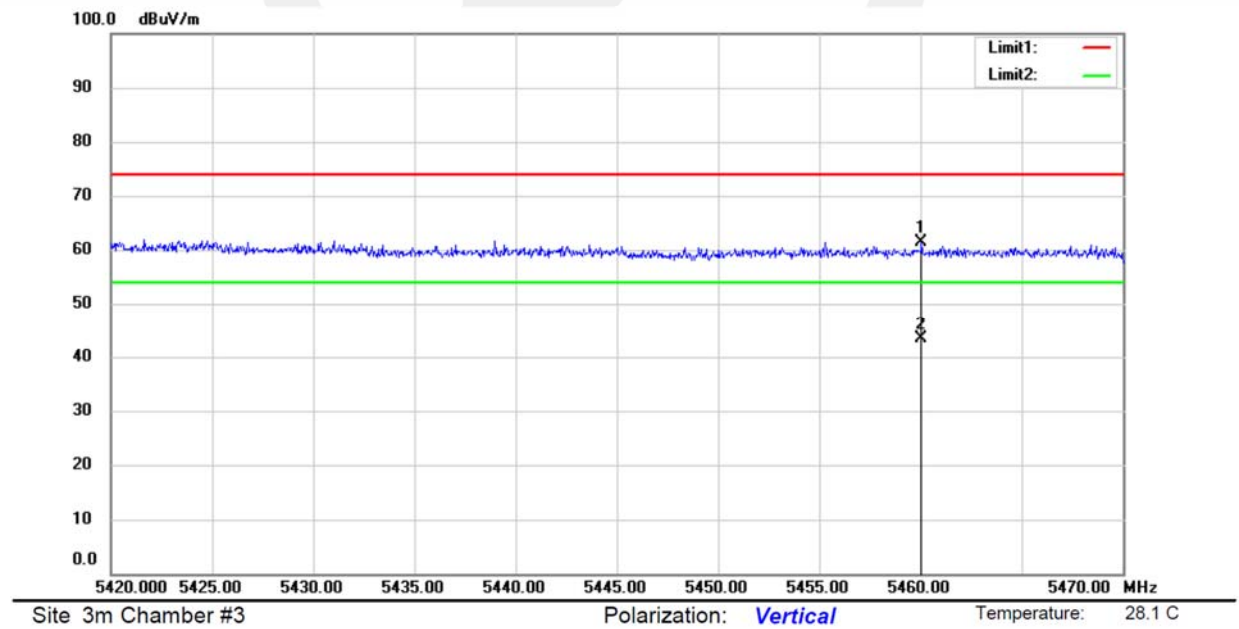
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 64: 5320MHz	Ant.Pol
			V



U-NII-2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 100: 5500MHz	Ant.Pol	H

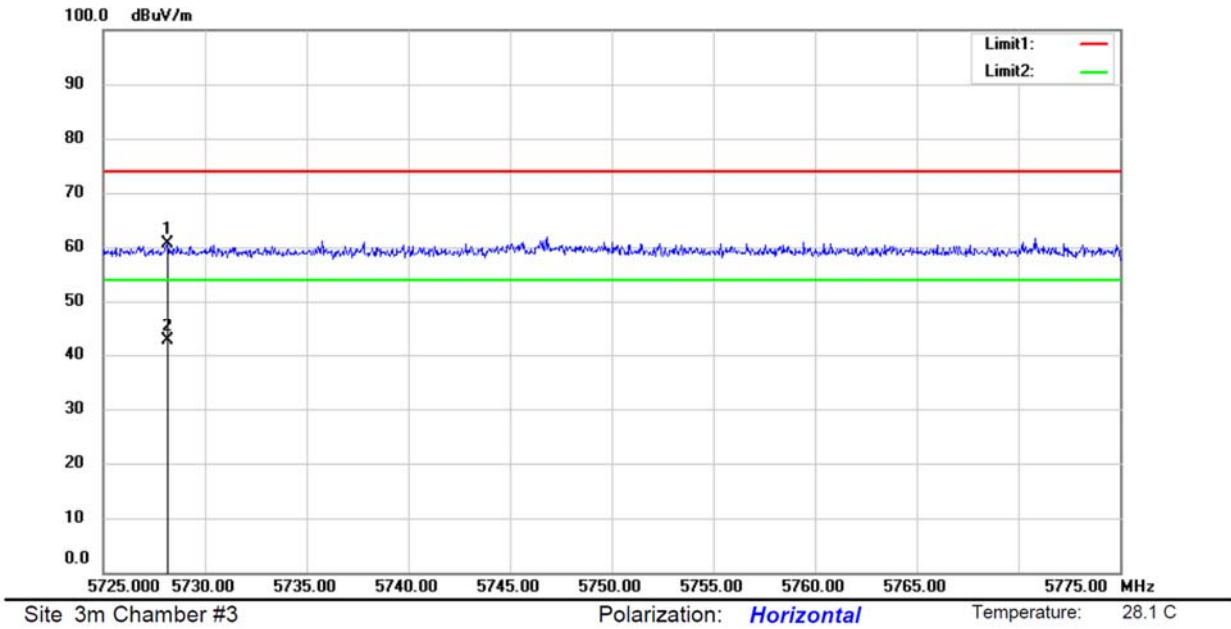


U-NII-2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 100: 5500MHz	Ant.Pol	V



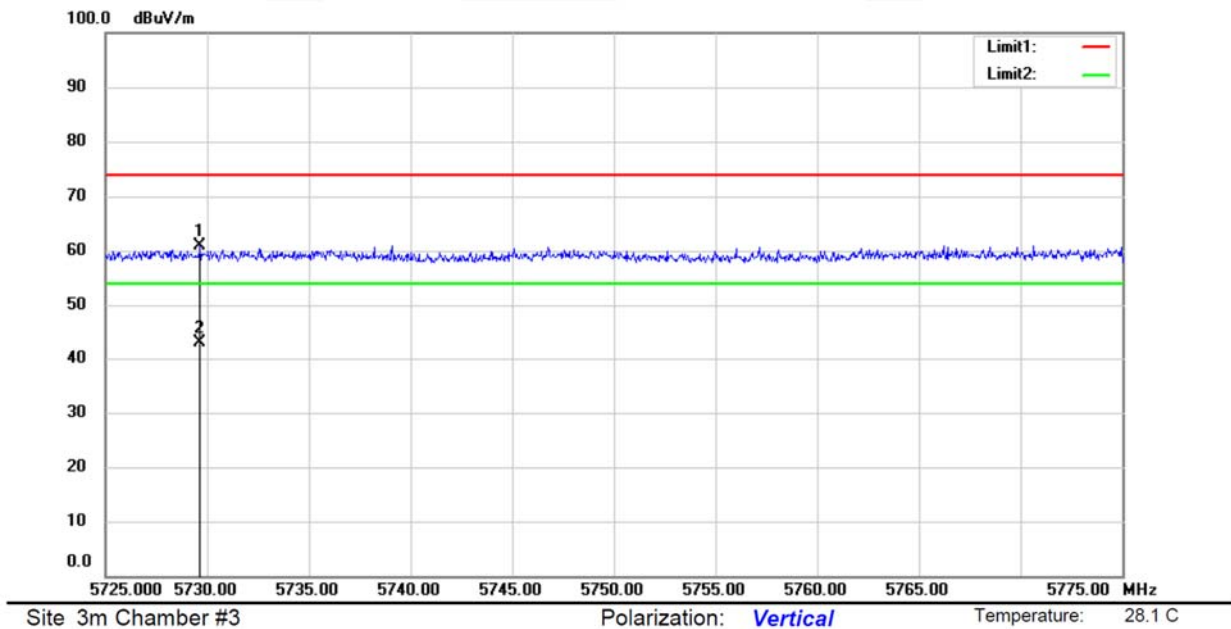
U-NII-2C

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 140: 5700MHz	Ant.Pol
			H



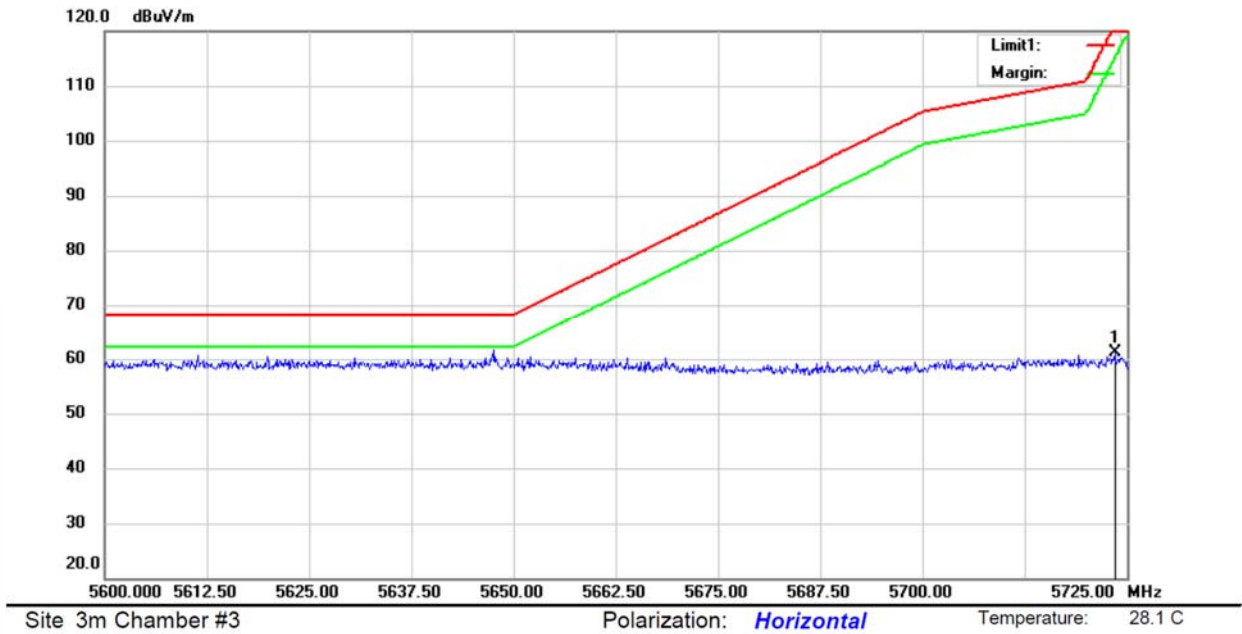
U-NII-2C

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 140: 5700MHz	Ant.Pol
			V



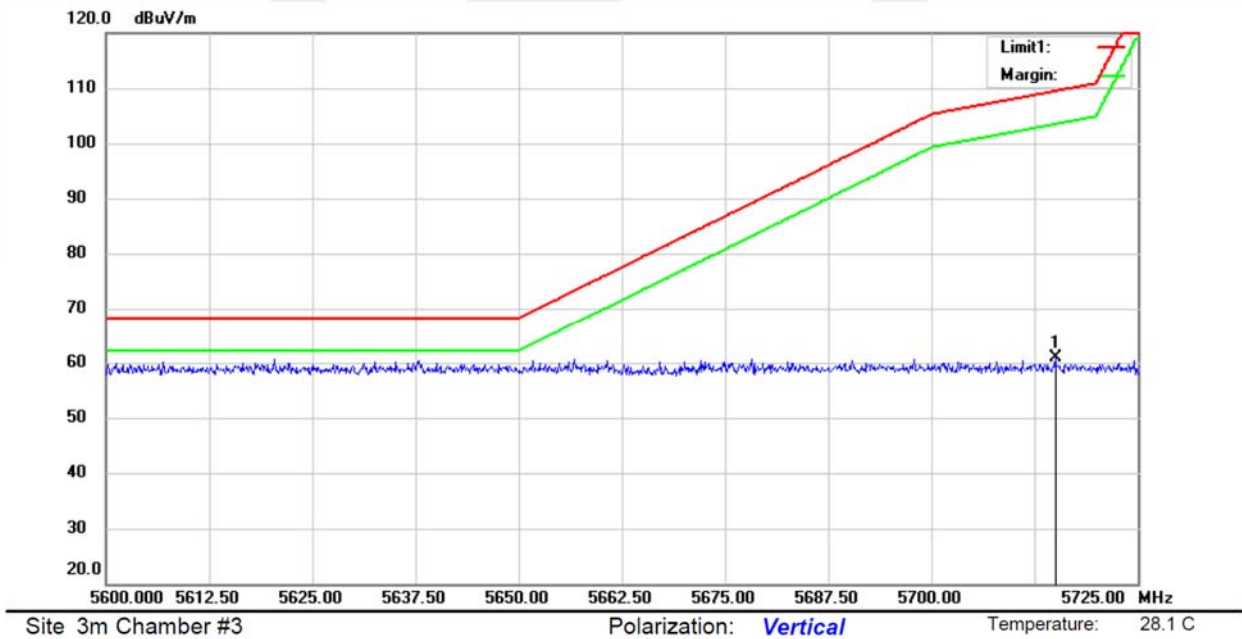
U-NII-3

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 149: 5745MHz	Ant.Pol
			H



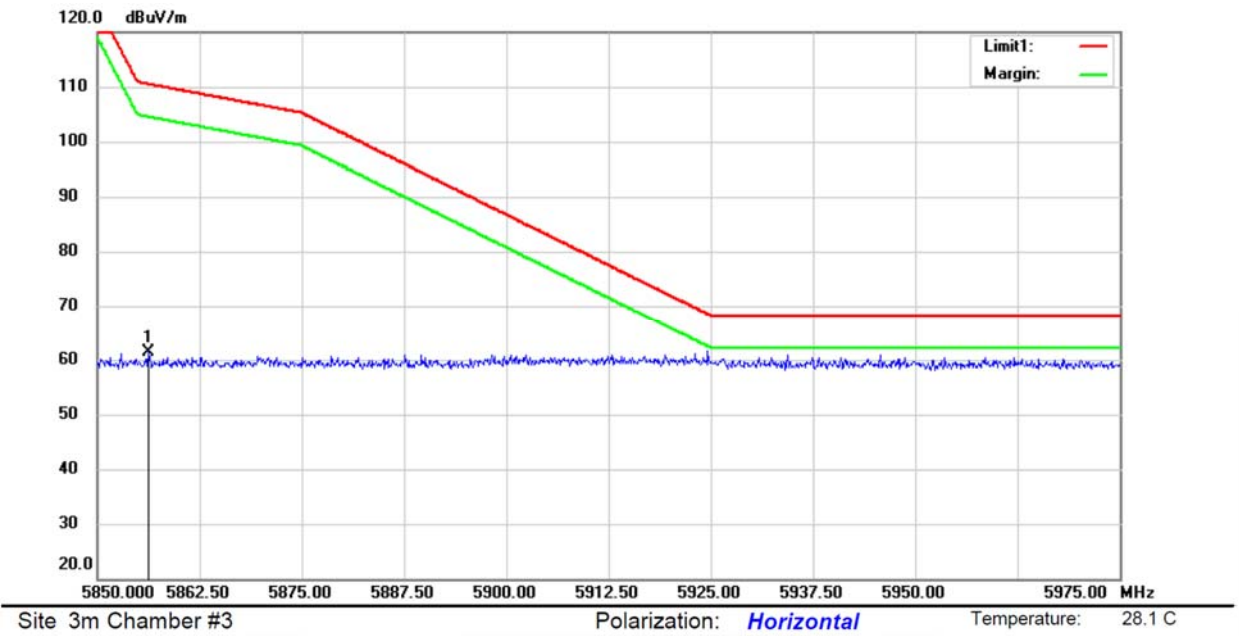
U-NII-3

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	802.11a	Channel 149: 5745MHz	Ant.Pol
			V



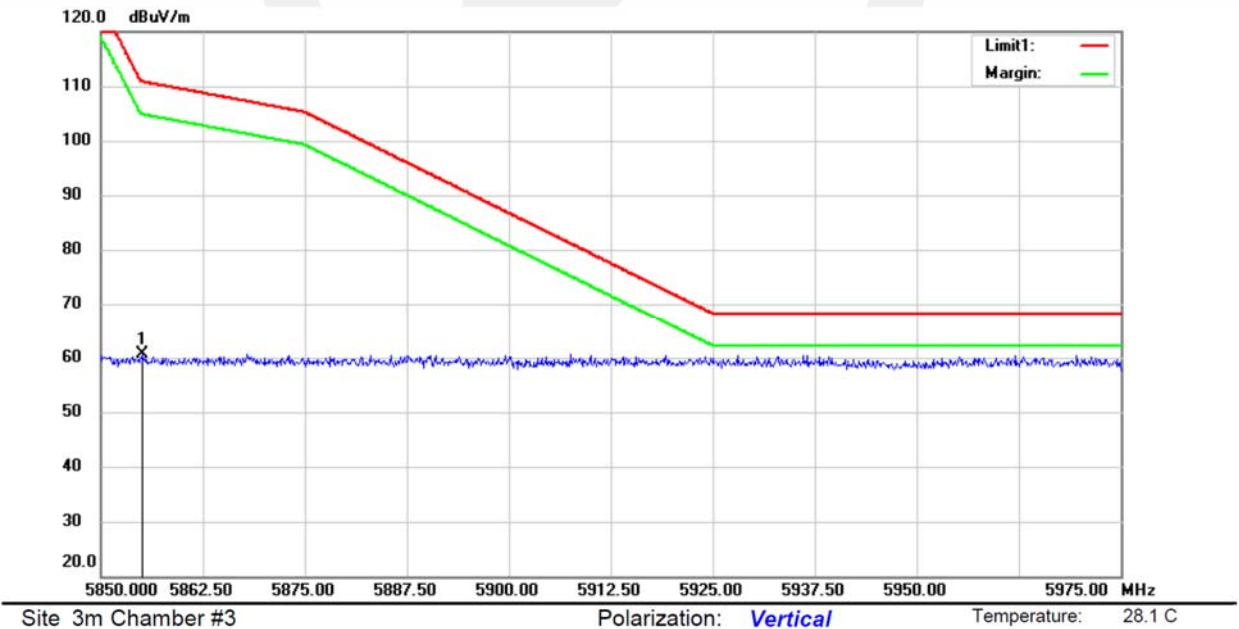
U-NII-3

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 165: 5825MHz	Ant.Pol	H

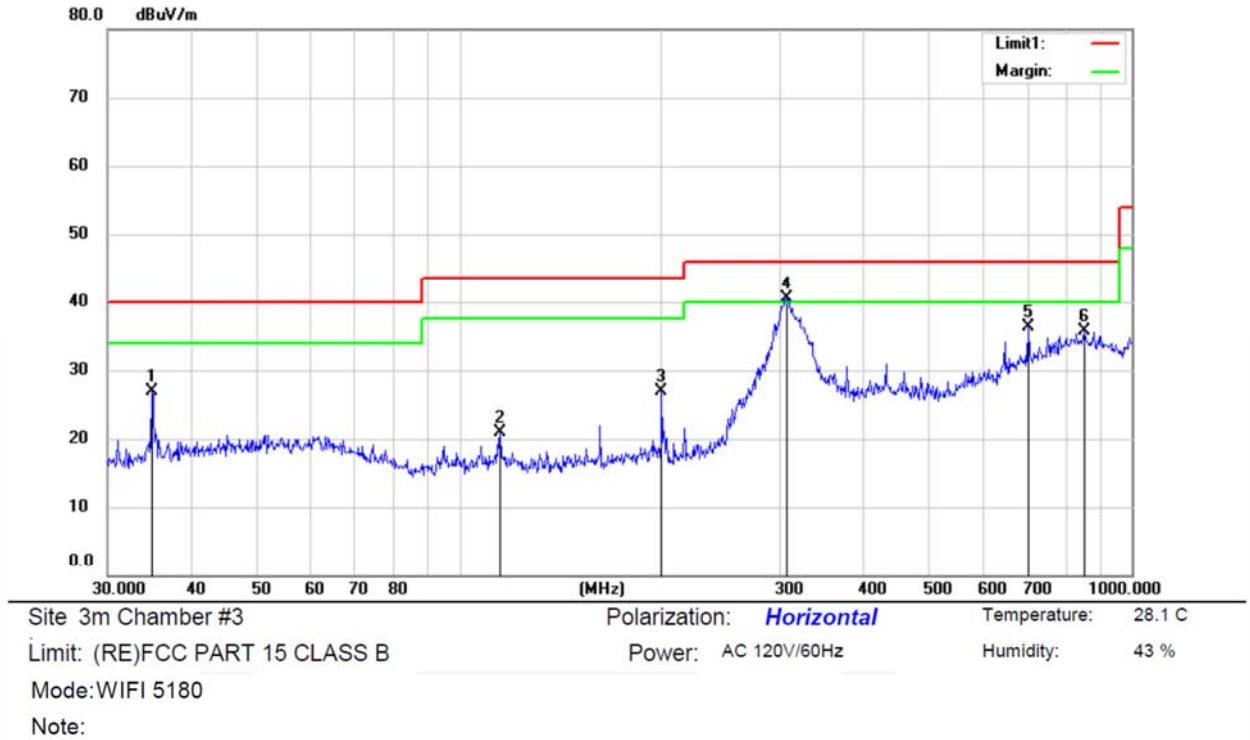


U-NII-3

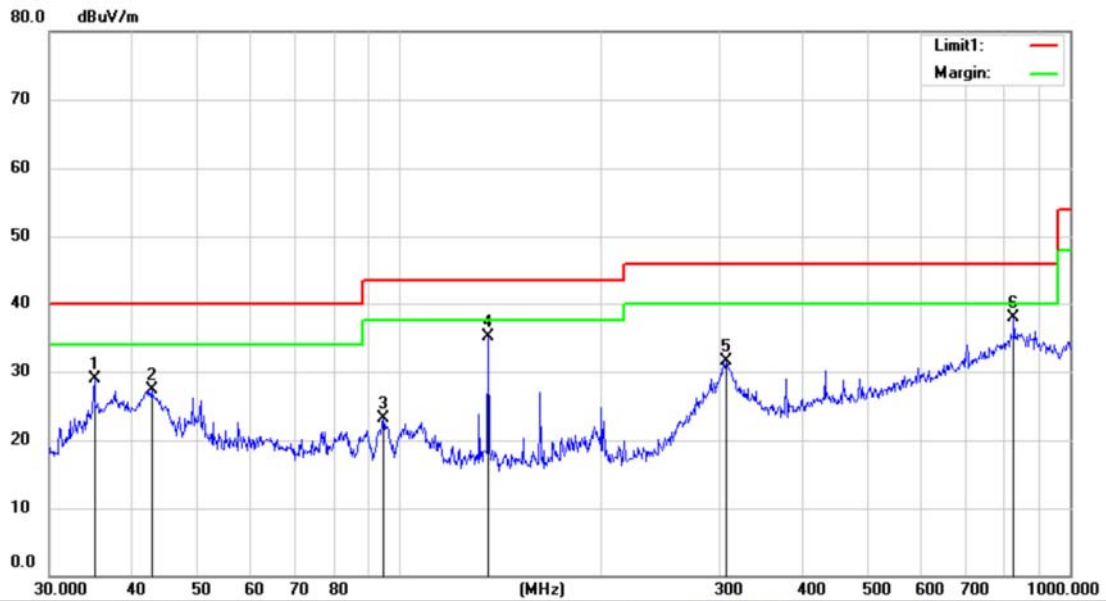
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11a	Channel 165: 5825MHz	Ant.Pol	V



- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
 All the antenna(Antenna 1) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1, 802.11a) result recorded was report as below:

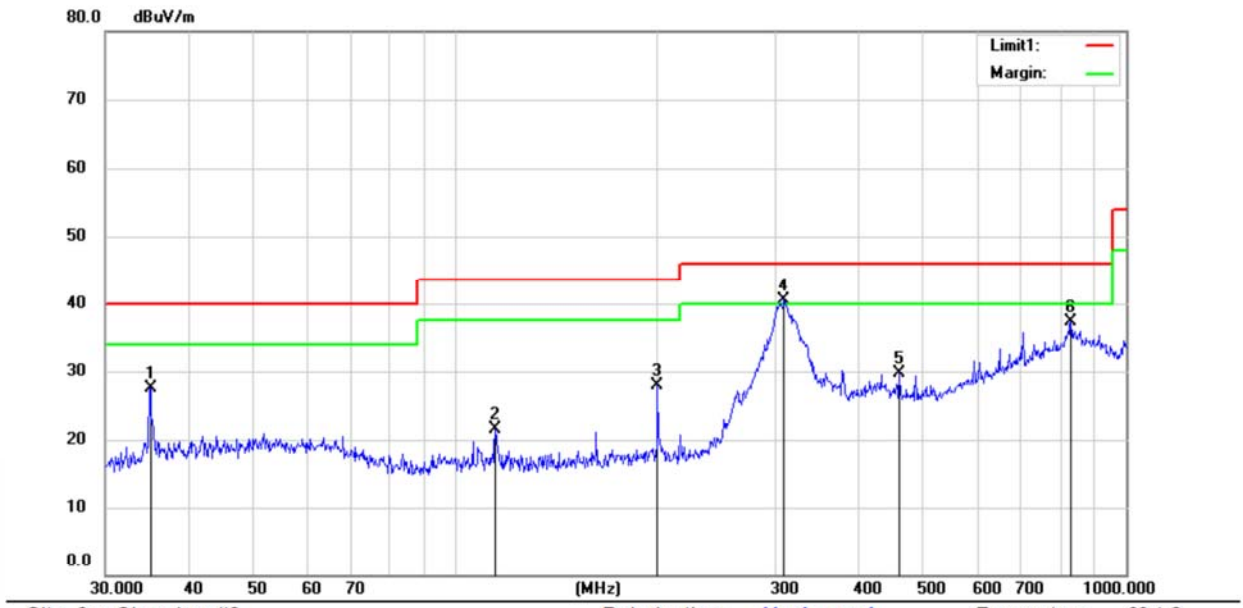


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		34.9742	36.09	-9.20	26.89	40.00	-13.11			QP
2		114.9673	30.78	-9.83	20.95	43.50	-22.55			QP
3		199.9856	36.20	-9.39	26.81	43.50	-16.69			QP
4	*	307.6964	45.72	-5.24	40.48	46.00	-5.52			QP
5		702.3765	33.67	2.71	36.38	46.00	-9.62			QP
6		853.2764	29.25	6.48	35.73	46.00	-10.27			QP



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 28.1 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 43 %
 Mode:WIFI 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		35.0048	38.09	-9.20	28.89	40.00	-11.11	QP		
2		42.6000	35.63	-8.25	27.38	40.00	-12.62	QP		
3		94.4284	33.38	-10.36	23.02	43.50	-20.48	QP		
4		135.6250	45.08	-9.97	35.11	43.50	-8.39	QP		
5		306.8882	36.64	-5.22	31.42	46.00	-14.58	QP		
6	*	826.4060	31.64	6.17	37.81	46.00	-8.19	QP		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 28.1 C

Limit: (RE)FCC PART 15 CLASS B

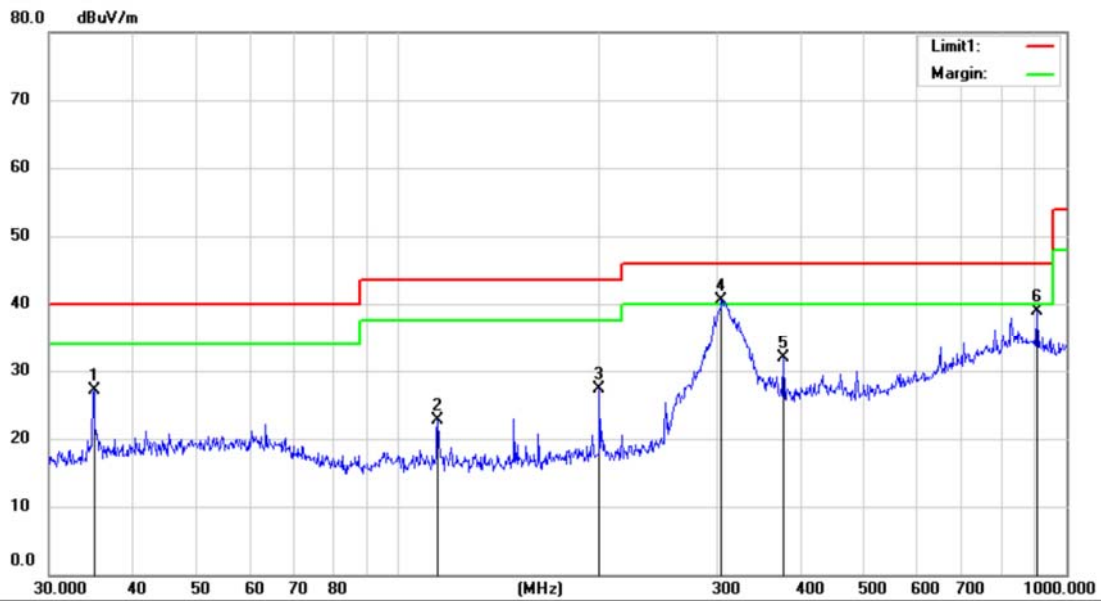
Power: AC 120V/60Hz

Humidity: 43 %

Mode:WIFI 5200

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		35.0048	36.65	-9.20	27.45	40.00	-12.55	QP		
2		114.6151	31.46	-9.87	21.59	43.50	-21.91	QP		
3		199.9856	37.39	-9.39	28.00	43.50	-15.50	QP		
4	*	308.9126	45.87	-5.27	40.60	46.00	-5.40	QP		
5		459.3157	31.81	-2.08	29.73	46.00	-16.27	QP		
6		827.4934	31.06	6.23	37.29	46.00	-8.71	QP		



Site 3m Chamber #3

Polarization: *Horizontal*

Temperature: 28.1 C

Limit: (RE)FCC PART 15 CLASS B

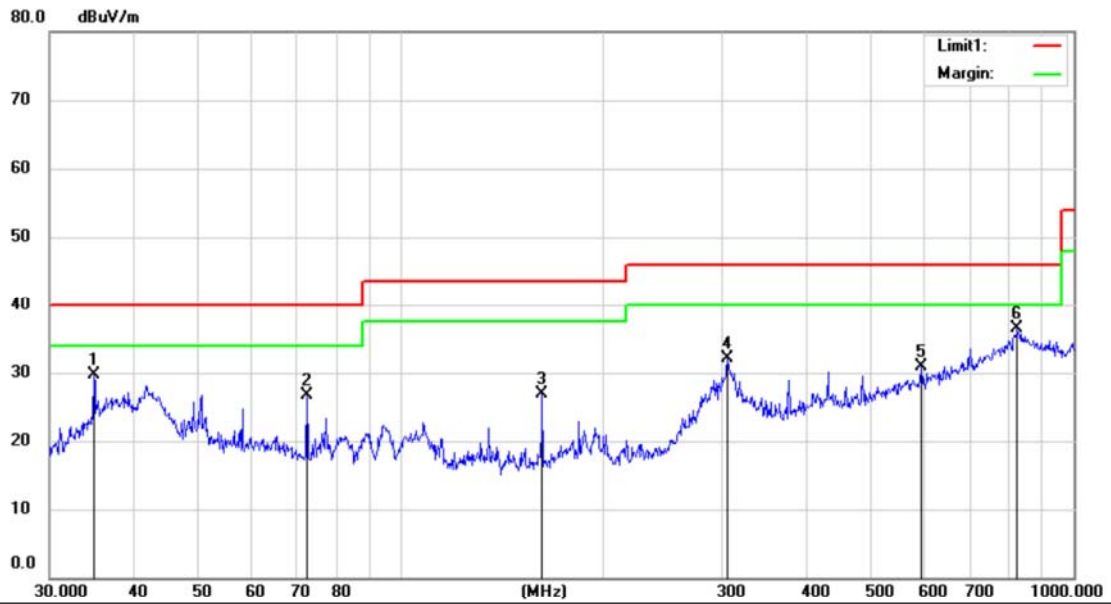
Power: AC 120V/60Hz

Humidity: 43 %

Mode:WIFI 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		35.0202	36.36	-9.19	27.17	40.00	-12.83	QP		
2		114.6151	32.62	-9.87	22.75	43.50	-20.75	QP		
3		200.0732	36.72	-9.39	27.33	43.50	-16.17	QP		
4	*	304.7435	45.75	-5.16	40.59	46.00	-5.41	QP		
5		378.2526	35.08	-3.26	31.82	46.00	-14.18	QP		
6		905.2912	33.39	5.44	38.83	46.00	-7.17	QP		



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 28.1 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 43 %
 Mode:WIFI 5240
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		34.9895	38.81	-9.19	29.62	40.00	-10.38			QP
2		72.3693	35.83	-9.18	26.65	40.00	-13.35			QP
3		162.1124	36.75	-9.78	26.97	43.50	-16.53			QP
4		306.0822	37.31	-5.20	32.11	46.00	-13.89			QP
5		594.3508	30.00	0.82	30.82	46.00	-15.18			QP
6	*	824.9583	30.45	6.10	36.55	46.00	-9.45			QP

8.6 POWER LINE CONDUCTED EMISSIONS

8.6.1 Applicable Standard

According to FCC Part 15.207(a)
According to IC RSS-Gen 8.8

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

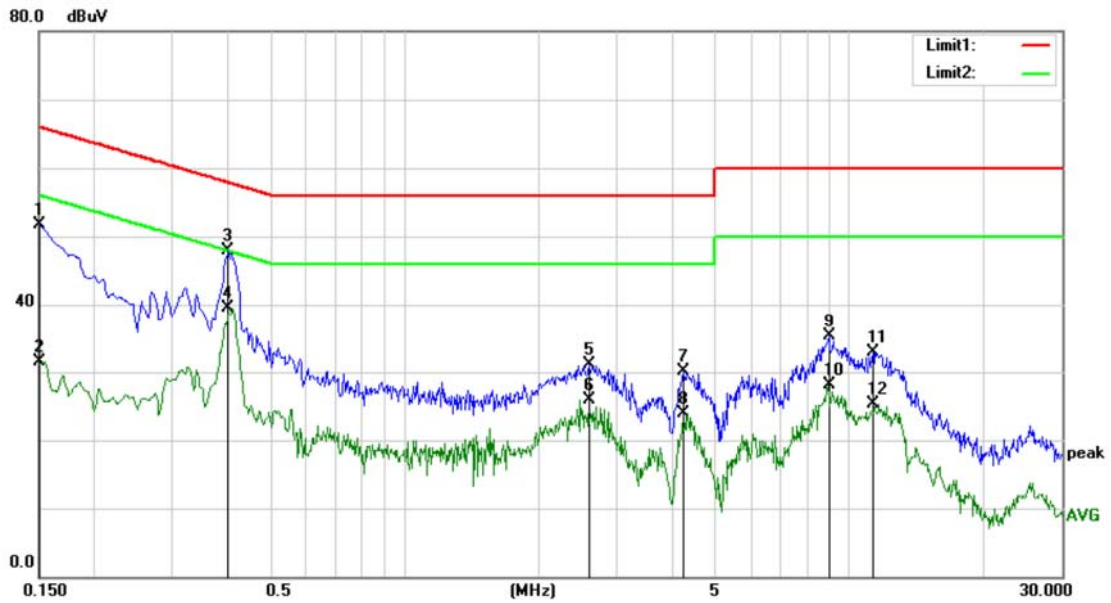
8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

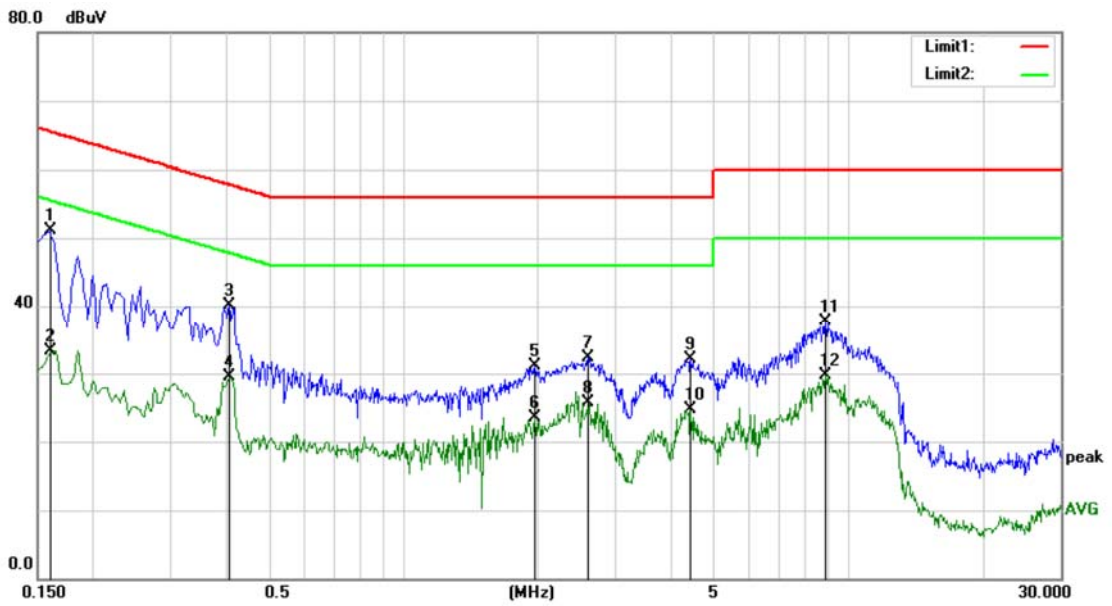
Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #1 Phase: **N** Temperature: 21.9
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 58 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	42.26	9.53	51.79	66.00	-14.21	QP	
2		0.1500	21.92	9.53	31.45	56.00	-24.55	AVG	
3		0.4000	38.40	9.54	47.94	57.85	-9.91	QP	
4	*	0.4000	29.90	9.54	39.44	47.85	-8.41	AVG	
5		2.6050	21.61	9.56	31.17	56.00	-24.83	QP	
6		2.6050	16.26	9.56	25.82	46.00	-20.18	AVG	
7		4.2450	20.49	9.57	30.06	56.00	-25.94	QP	
8		4.2450	14.37	9.57	23.94	46.00	-22.06	AVG	
9		8.9800	25.57	9.67	35.24	60.00	-24.76	QP	
10		8.9800	18.41	9.67	28.08	50.00	-21.92	AVG	
11		11.2800	23.22	9.74	32.96	60.00	-27.04	QP	
12		11.2800	15.53	9.74	25.27	50.00	-24.73	AVG	



Site Conduction #1 Phase: **L1** Temperature: 21.9
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 58 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1600	41.50	9.53	51.03	65.46	-14.43	QP	
2		0.1600	23.70	9.53	33.23	55.46	-22.23	AVG	
3		0.4050	30.51	9.54	40.05	57.75	-17.70	QP	
4		0.4050	19.90	9.54	29.44	47.75	-18.31	AVG	
5		1.9700	21.48	9.55	31.03	56.00	-24.97	QP	
6		1.9700	13.89	9.55	23.44	46.00	-22.56	AVG	
7		2.5950	22.71	9.56	32.27	56.00	-23.73	QP	
8		2.5950	16.05	9.56	25.61	46.00	-20.39	AVG	
9		4.4200	22.54	9.57	32.11	56.00	-23.89	QP	
10		4.4200	15.10	9.57	24.67	46.00	-21.33	AVG	
11		8.9050	28.08	9.67	37.75	60.00	-22.25	QP	
12		8.9050	20.06	9.67	29.73	50.00	-20.27	AVG	

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>
RSS-Gen Section 6.8	<p>The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.</p>

8.7.2 Result

PASS.

- Note:
- Antenna use a permanently attached antenna which is not replaceable.
 - Not using a standard antenna jack or electrical connector for antenna replacement
 - The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

----- END OF REPORT -----